

FORM PTO-1449		DOCKET NUMBER		APPLICATION NUMBER			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		NPW 301K		10/728,473			
		APPLICANTS DAVID J. EDLUND, WILLIAM A. PLEDGER and R. TODD STUDEBAKER					
		FILING DATE December 5, 2003		GROUP ART UNIT 1724			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
R.L.C.	1,306,221	6/10/1919	Ellis	—	—		
	1,782,824	11/25/1930	Hechenbleikner	—	—		
	1,848,466	3/8/1932	Edmonds	—	—		
	2,132,151	10/4/1938	Fenske et al.	—	—		
	2,450,804	10/5/1948	Loy	—	—		
	2,609,059	9/2/1952	Benedict	—	—		
	2,824,620	2/25/1958	De Rosset	—	—		
	3,094,391	6/18/1963	Mader	—	—		
	3,144,312	8/11/1964	Mertens	—	—		
R.L.C.	3,208,198	9/28/1965	Rubin	—	—		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
R.L.C.	JP 45-14404	5/1970	Japan	—	—		X
R.L.C.	JP 45-2642	9/1970	Japan	—	—		X
R.L.C.	JP 57-145276	9/1982	Japan	—	—		X
OTHER DOCUMENTS							
R.L.C.		English-language abstract of Japanese Patent No. 1-262903, 1989.					
R.L.C.		English-language abstract of Japanese Patent No. 432150, 1992.					
R.L.C.		English-language abstract of Japanese Patent No. 513230, 1993.					
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Richard L. Chiesa			March 11, 2004				

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R.L.C.	3,336,730	8/22/1967	McBride et al.	—	—	
	3,338,681	8/29/1967	Kordesch	—	—	
	3,344,586	10/3/1967	Langley et al.	—	—	
	3,350,176	10/31/1967	Green et al.	—	—	
	3,356,538	12/5/1967	Miekka et al.	—	—	
	3,368,329	2/13/1968	Eguchi et al.	—	—	
	3,428,476	2/18/1969	Langley et al.	—	—	
	3,439,474	4/22/1969	McKinley	—	—	
	3,447,288	6/3/1969	Juda et al.	—	—	
	3,450,500	6/17/1969	Setzer et al.	—	—	
R.L.C.	3,469,372	9/30/1969	Yamauchi et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
R.L.C.	JP 1-145302	6/1989	Japan	—	—	X
R.L.C.	JP 1-145303	6/1989	Japan	—	—	X
R.L.C.	JP 1262903	10/1989	Japan	—	—	X
OTHER DOCUMENTS						
R.L.C.		English-language abstract of Japanese Patent No. 514790, 1993.				
R.L.C.		English-language abstract of Japanese Patent No. 4-338101.				
R.L.C.		English-language abstract of Japanese Patent No. 604070, 1994.				
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R.L.C.	3,469,944	9/30/1969	Bocard et al.	—	—		
	3,486,301	12/30/1969	Bonnet	—	—		
	3,520,803	7/21/1970	Iaconelli	—	—		
	3,524,819	8/18/1970	Guerrieri	—	—		
	3,534,531	10/20/1970	Eguchi et al.	—	—		
	3,564,819	2/23/1971	Neulander et al.	—	—		
	3,589,171	6/29/1971	Haley	—	—		
	3,665,680	5/30/1972	Heuser	—	—		
	3,713,270	1/30/1973	Farr et al.	—	—		
	3,761,382	9/25/1973	Hammond et al.	—	—		
R.L.C.	3,782,904	1/1/1974	Fletcher	—	—		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
R.L.C.	EP 0434562 A1	6/26/1991	EPO	—	—	X	
R.L.C.	JP 4-163860	6/1992	Japan	—	—		X
R.L.C.	JP 4-338101	11/1992	Japan	—	—		X
OTHER DOCUMENTS							
R.L.C.		English-language abstract of Japanese Patent No. 634540.					
R.L.C.		English-language abstract of Japanese Patent No. 710910, 1995.					
R.L.C.		English-language abstract of Japanese Patent No. 828793, 1996.					
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R.L.C.	3,787,038	1/22/1974	Tesner et al.	—	—	
	3,791,106	2/12/1974	Haley	—	—	
	3,839,110	10/1/1974	Shankoff	—	—	
	3,849,076	11/19/1974	Gryaznov et al.	—	—	
	3,881,891	5/6/1975	Goltsov et al.	—	—	
	3,881,897	5/6/1975	Faure et al.	—	—	
	3,920,416	11/18/1975	Houseman	—	—	
	3,955,941	5/11/1976	Houseman et al.	—	—	
	3,972,695	8/3/1976	Buckley et al.	—	—	
R.L.C.	3,980,452	9/14/1976	Krumm et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
R.L.C.	JP 6-134244	5/1994	Japan	—	—	
R.L.C.	WO 97/25649	7/1997	WIPO	—	—	X
R.L.C.	WO 97/43796	11/1997	WIPO	—	—	X
OTHER DOCUMENTS						
R.L.C.		English-language abstract of Japanese Patent No. 6176779, 1994.				
R.L.C.		English-language abstract of Japanese Patent No. 7057758, 1995.				
R.L.C.		English-language abstract of Japanese Patent No. 11116202, 1999.				
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R.L.C.	3,982,910	9/28/1976	Houseman et al.	—	—		
	4,003,343	1/18/1977	Lec	—	—		
	4,003,725	1/18/1977	Bunn, Jr. et al.	—	—		
	4,056,373	11/1/1977	Rubin	—	—		
	4,078,985	3/14/1978	Takeuchi	—	—		
	4,084,934	4/18/1978	Kumazawa	—	—		
	4,098,959	7/4/1978	Fanciullo	—	—		
	4,098,960	7/4/1978	Gagnon	—	—		
	4,127,393	11/28/1978	Timmins et al.	—	—		
	4,132,668	1/2/1979	Gryaznov et al.	—	—		
R.L.C.	4,134,739	1/16/1979	Gulden et al.	—	—		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
R.L.C.	WO 99/30806	6/1999	WIPO	—	—	X	
R.L.C.	WO 99/65097	12/1999	WIPO	—	—	X	
R.L.C.	WO 00/04600	1/2000	WIPO	—	—		X
OTHER DOCUMENTS							
R.L.C.		English-language abstract of Japanese Patent No. 57-145276.					
R.L.C.		English-language abstract of Japanese Patent No. 1-145302.					
R.L.C.		English-language abstract of Japanese Patent No. 1-145303.					
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R.L.C.	4,197,152	4/8/1980	Palty et al.	—	—	
	4,238,403	12/9/1980	Pinto	—	—	
	4,248,688	2/3/1981	Gartner et al.	—	—	
	4,254,086	3/3/1981	Sanders	—	—	
	4,302,177	11/24/1981	Fankhanel et al.	—	—	
	4,313,013	1/26/1982	Harris	—	—	
	4,315,893	2/16/1982	McCallister	—	—	
	4,319,923	3/16/1982	Falanga et al.	—	—	
	4,329,157	5/11/1982	Dobo et al.	—	—	
	4,331,520	5/25/1982	Juda et al.	—	—	
R.L.C.	4,349,613	9/14/1982	Winsel	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
R.L.C.	WO 00/27507	5/2000	WIPO	—	—	X
R.L.C.	WO 01/03086	1/2001	WIPO	—	—	X
R.L.C.	EP 1065741 A2	1/3/2001	EPO	—	—	X
OTHER DOCUMENTS						
R.L.C.		English-language abstract of Great Britain Patent No. 2,305,186.				
R.L.C.		English-language abstract of German language PCT Patent Application Serial No. WO 00/04600, 2000.				
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R. L. C.	4,381,641	5/3/1983	Madgavkar et al.	—	—	
	4,387,434	6/7/1983	Moncrief, Jr. et al.	—	—	
	4,400,182	8/23/1983	Davies et al.	—	—	
	4,417,905	11/29/1983	Banks et al.	—	—	
	4,422,911	12/27/1983	Juda et al.	—	—	
	4,430,304	2/7/1984	Spurrier et al.	—	—	
	4,444,158	4/24/1984	Yoon	—	—	
	4,468,235	8/28/1984	Hill	—	—	
	4,472,176	9/18/1984	Rubin	—	—	
R. L. C.	4,473,622	9/25/1984	Chludzinski et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
R. L. C.	WO 01/28662	4/2001	WIPO	—	—	X
OTHER DOCUMENTS						
R. L. C.		Adris, A. M., et al., "A Fluidized Bed Membrane Reactor for the Steam Reforming of Methane," The Canadian Journal of Chemical Engineering, Vol. 69, pp. 1061-70 (October, 1991).				
R. L. C.		Amphlett, J. C., et al., "On Board Hydrogen Purification for Steam Reformer/PEM Fuel Cell Vehicle Power Plants," Energy Progress X, Proceedings of the 10 th World Hydrogen Energy Conference, Cocoa Beach, Florida, U.S.A., Vol. 3, pp. 1681-90 (June, 1994).				
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R. L. C.	4,504,447	3/12/1985	Spurrier et al.	—	—	
	4,533,607	8/6/1985	Sederquist	—	—	
	4,553,981	11/19/1985	Fuderer	—	—	
	4,567,857	2/4/1986	Houseman et al.	—	—	
	4,589,891	5/20/1986	Iniotakis et al.	—	—	
	4,642,273	2/10/1987	Sasaki	—	—	
	4,644,751	2/24/1987	Hsu	—	—	
	4,650,814	3/17/1987	Keller	—	—	
	4,654,063	3/31/1987	Auvil et al.	—	—	
R. L. C.	4,655,797	4/7/1987	Iniotakis et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
R. L. C.		Amphlett, J. C., et al., "Simulation of a 250 kW Diesel Fuel Processor/PEM Fuel Cell System," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 8 (September 22-25, 1997).				
R. L. C.		Chai, M., et al., "Promotion of Methane Steam Reforming Using Ruthenium-Dispersed Microporous Alumina Membrane Reactor," Chemistry Letters, The Chemical Society of Japan, pp. 41-44 (1993).				
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R.L.C.	4,657,828	4/14/1987	Tajima	—	—	
	4,659,634	4/21/1987	Struthers	—	—	
	4,670,359	6/2/1987	Beshty et al.	—	—	
	4,684,581	8/4/1987	Struthers	—	—	
	4,699,637	10/13/1987	Iniotakis et al.	—	—	
	4,713,234	12/15/1987	Weirich et al.	—	—	
	4,751,151	6/14/1988	Healy et al.	—	—	
	4,781,241	11/1/1988	Misage et al.	—	—	
	4,788,004	11/29/1988	Pinto et al.	—	—	
R.L.C.	4,810,485	3/7/1989	Marianowski et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
R.L.C.		"Compact, Lightweight Fuel Reformer for Fuel Cells," Argonne National Laboratory/U.S. Department of Energy (July, 1996).				
R.L.C.		Edlund, Dr. David and William Pledger, "Development of a Compact and Economical Steam Reformer for Fuel-Cell Systems," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 6 (September 22-23, 1997).				
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R.L.C.	4,838,897	6/13/1989	Amano et al.	—	—	
	4,849,187	7/18/1989	Uozu et al.	—	—	
	4,865,624	9/12/1989	Okada	—	—	
	4,880,040	11/14/1989	Pierson et al.	—	—	
	4,904,455	2/27/1990	Karafian et al.	—	—	
	4,904,548	2/27/1990	Tajima	—	—	
	4,946,667	8/7/1990	Beshty	—	—	
	4,981,676	1/1/1991	Minet et al.	—	—	
	4,999,107	3/12/1991	Guerif	—	—	
R.L.C.	5,030,661	7/9/1991	Lywood	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
R.L.C.		Edlund, David J. and William A. Pledger, "The Practical Use of Metal-Membrane Reactors for Industrial Applications," The 1995 Membrane Technology Reviews, pp. 89-97 (November, 1994).				
R.L.C.		Emonts, B., et al., "Compact Methanol Reformer Test for Fuel-Cell Powered Light-Duty Vehicles," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 42 (September 22-25, 1997).				
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R.L.C.	5,032,365	7/16/1991	Aono et al.	—	—	
	5,126,045	6/30/1992	Kohlheb et al.	—	—	
	5,139,541	8/18/1992	Edlund	—	—	
	5,158,581	10/27/1992	Coplan	—	—	
	5,205,841	4/27/1993	Vaiman	—	—	
	5,215,729	6/1/1993	Buxbaum	—	—	
	5,217,506	6/8/1993	Edlund et al.	—	—	
	5,225,080	7/6/1993	Karbachsch et al.	—	—	
	5,226,928	7/13/1993	Makabe et al.	—	—	
R.L.C.	5,229,102	7/20/1993	Minet et al.	—	—	
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R.L.C.		Emonts, B., et al., "Compact Methanol Reformer Test for Fuel-Cell Powered Light-Duty Vehicles," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., (no page no.), (September 22-25, 1997).				
R.L.C.		Jørgensen, S. Lægsgaard, et al., "Application of Pd-Membranes for the Production of Pure Hydrogen in Methanol-Based Fuel Cell Powered Vehicles," Proceedings of Fourth Workshop: Optimisation of Catalytic Membrane Reactor Systems, ESF Network, Catalytic Membrane Reactors, Oslo, Norway, pp. 51-57 (May 30-31, 1997).				
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R. L. C.	5,259,870	11/9/1993	Edlund	—	—	
	5,326,550	7/5/1994	Adris et al.	—	—	
	5,335,628	8/9/1994	Dunbar	—	—	
	5,344,721	9/6/1994	Sonai et al.	—	—	
	5,354,547	10/11/1994	Rao et al.	—	—	
	5,376,167	12/27/1994	Broutin et al.	—	—	
	5,382,271	1/17/1995	Ng et al.	—	—	
	5,393,325	2/28/1995	Edlund	—	—	
	5,395,425	3/7/1995	Brown	—	—	
R. L. C.	5,401,589	3/28/1995	Palmer et al.	—	—	
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
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R. L. C.		Knapton, A. G., "Palladium Alloys for Hydrogen Diffusion Membranes," Platinum Metals Review, Vol. 21, 44-50 (1977).				
R. L. C.		Ledjeff-Hey, K., et al., "Compact Hydrogen Production Systems for Solid Polymer Fuel Cells," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 17 (September 22-25, 1997).				
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R.L.C.	5,417,051	5/23/1995	Ankersmit et al.	—	—	
	5,432,710	7/11/1995	Ishimaru et al.	—	—	
	Re. 35,002	7/25/1995	Matsubara et al.	—	—	
	5,449,848	9/12/1995	Itoh	—	—	
	5,458,857	10/17/1995	Collins et al.	—	—	
	5,498,278	3/12/1996	Edlund	—	—	
	5,500,122	3/19/1996	Schwartz	—	—	
	5,509,942	4/23/1996	Dodge	—	—	
	5,516,344	5/14/1996	Corrigan	—	—	
R.L.C.	5,518,530	5/21/1996	Sakai et al.	—	—	
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R.L.C.		Menzer, R., et al., "Fuel Processing in Fuel Cell Systems for Mobile Applications - Gasoline as Energy Carrier On-Bord," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., (no page no.), (September 22-25, 1997).				
R.L.C.		Minet, R. G., et al., "Experimental Studies of A Ceramic Membrane Reactor for the Steam/Methane Reaction at Moderate Temperatures (400-700°C)," Symposium on Natural Gas Upgrading II Presented before The Division of Petroleum Chemistry, Inc., Meeting of American Chemical Society, San Francisco, California, U.S.A., pp. 245-48 (April, 1992).				
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Richard L. Chieso			March 11, 2004			

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
R. L. C.	5,520,807	5/28/1996	Myrna et al.	—	—	
	5,525,322	6/11/1996	Willms	—	—	
	5,527,632	6/18/1996	Gardner	—	—	
	5,536,405	7/16/1996	Myrna et al.	—	—	
	5,580,523	12/3/1996	Bard	—	—	
	5,589,599	12/31/1996	McMullen et al.	—	—	
	5,612,012	3/18/1997	Soma et al.	—	—	
	5,616,430	4/1/1997	Aoyama	—	—	
	5,637,259	6/10/1997	Galuszka et al.	—	—	
R. L. C.	5,637,414	6/10/1997	Inoue et al.	—	—	
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R. L. C.		Oertel, Michael, et al., "Steam Reforming of Natural Gas with Integrated Hydrogen Separation for Hydrogen Production," Chemical Engineering Technology, Vol. 10, pp. 248-55 (1987).				
R. L. C.		Piwetz et al., "Hydrosulfurization and Prereforming of Logistic Fuels for Use in Fuel Cell Applications," presented at the 1996 Fuel Cell Seminar held Nov. 17-20, 1996 in Orlando, Florida, pp. 780-783.				
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R.L.C.	5,639,431	6/17/1997	Shirasaki et al.	—	—	
	5,645,626	7/8/1997	Edlund et al.	—	—	
	5,658,681	8/19/1997	Sato et al.	—	—	
	5,677,073	10/14/1997	Kawatsu	—	—	
	5,679,249	10/21/1997	Fendya et al.	—	—	
	5,705,082	1/6/1998	Hinson	—	—	
	5,705,916	1/6/1998	Rudbeck et al.	—	—	
	5,712,052	1/27/1998	Kawatsu	—	—	
	5,714,276	2/3/1998	Okamoto	—	—	
R.L.C.	5,734,092	3/31/1998	Wang et al.	—	—	
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R.L.C.		Privette et al., "Status of SOFCo SOFC Technology Development," presented at the 1996 Fuel Cell Seminar held Nove. 17-20, 1996 in Orlando, Florida, pp. 206-209.				
R.L.C.		Shu, J., et al., "Catalytic Palladium-Based Membrane Reactors: A Review," The Canadian Journal of Chemical Engineering, Vol. 69, pp. 1036-60 (October, 1991).				
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R.L.C.	5,738,708	4/14/1998	Peachey et al.	—	—	
	5,741,474	4/21/1998	Isomura et al.	—	—	
	5,741,605	4/21/1998	Gillett et al.	—	—	
	5,780,179	7/14/1998	Okamoto	—	—	
	5,782,960	7/21/1998	Ogawa et al.	—	—	
	5,795,666	8/18/1998	Johnssen	—	—	
	5,811,065	9/22/1998	Sterenber	—	—	
	5,814,112	9/29/1998	Elliot et al.	—	—	
	5,821,185	10/13/1998	White et al.	—	—	
R.L.C.	5,833,723	11/10/1998	Kuwabara et al.	—	—	
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R.L.C.		Teagan, W. P., et al., "Cost Reduction of Fuel Cells for Transportation Applications—Fuel Processing Options," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K. (September 22-25, 1997).				
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R.L.C.	5,858,314	1/12/1999	Hsu et al.	—	—		
	5,861,137	1/19/1999	Edlund	—	—		
	5,874,051	2/23/1999	Heil et al.	—	—		
	5,888,273	3/30/1999	Buxbaum	—	—		
	5,897,766	4/27/1999	Kawatsu	—	—		
	5,897,970	4/27/1999	Isomura et al.	—	—		
	5,904,754	5/18/1999	Juda et al.	—	—		
	5,931,987	8/3/1999	Buxbaum	—	—		
	5,932,181	8/3/1999	Kim et al.	—	—		
R.L.C.	5,938,800	8/17/1999	Verrill et al.	—	—		
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R. L. C.	5,985,474	11/16/1999	Chen et al.	—	—		
	5,997,594	12/7/1999	Edlund et al.	—	—		
	5,998,053	12/7/1999	Diethelm	—	—		
	6,007,931	12/28/1999	Fuller et al.	—	—		
	6,042,956	3/28/2000	Lenel	—	—		
	6,045,772	4/4/2000	Szydlowski et al.	—	—		
	6,045,933	4/4/2000	Okamoto	—	—		
	6,054,229	4/25/2000	Hsu et al.	—	—		
	6,077,620	6/20/2000	Pettit	—	—		
R. L. C.	6,083,637	7/4/2000	Walz et al.	—	—		
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R.L.C.	6,103,028	8/15/2000	Juda et al.	—	—	
	6,103,411	8/15/2000	Matsubayashi et al.	—	—	
	6,152,995	11/28/2000	Edlund	—	—	
	6,165,633	12/26/2000	Negishi	—	—	
	6,168,650	1/2/2001	Buxbaum	—	—	
	6,171,574	1/9/2001	Juda et al.	—	—	
	6,183,543	2/6/2001	Buxbaum	—	—	
	6,190,623	2/20/2001	Sanger et al.	—	—	
R.L.C.	6,201,029	3/13/2001	Waycuilis	—	—	
	6,221,117	4/24/2001	Edlund et al.	—	—	
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R. L. C.	6,238,465	5/29/2001	Juda et al.	—	—	
	6,242,120	6/5/2001	Herron	—	—	
	6,319,306	11/20/2001	Edlund et al.	—	—	
	6,395,405	5/28/2002	Buxbaum	—	—	
	6,458,189	10/1/2002	Edlund et al.	—	—	
	6,461,408	10/8/2002	Buxbaum	—	—	
	6,494,937	12/17/2002	Edlund et al.	—	—	
	6,537,352	3/25/2003	Edlund et al.	—	—	
	6,547,858	4/15/2003	Edlund et al.	—	—	
R. L. C.	6,632,270	10/14/2003	Edlund et al.	—	—	
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